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### Canon 814E light meter manual malfunction repair . Manual iris function repair.

Canon 814 AUTO ZOOM ELECTRONIC, or 814E for short, is my favorite camera. I was asked if I could repair it because the aperture was strange, so I took it in. When I looked, the auto mode was working. It also works in manual mode. But it only goes to about F8~11. When I let go, it slowly returns to about F4~5.6. I had fixed a different problem before, but this was the first time I had seen this symptom. I don't really understand what's going on, but I opened it up anyway.

Canon 814 AUTO ZOOM ELECTRONIC(814E), I like this. A friend asked me for the repair because the manual iris was strange. The auto is Ok. The manual seems to move. However, it moves only to F8~11. And, it slowly returns to F4~5.6 when the hand is separated.



It may vary depending on when it was made, but there are some cameras where the top cover cannot be removed unless the zoom ring is moved. There are some cameras where it is okay to not move it. If you want to move it, first turn the zoom lever to remove it. When you move the rubber, there are two screws, so remove those as well. Then move the zoom ring forward.

There are other cameras where you cannot disassemble them unless you remove the front lens, so this is easier to disassemble than that.

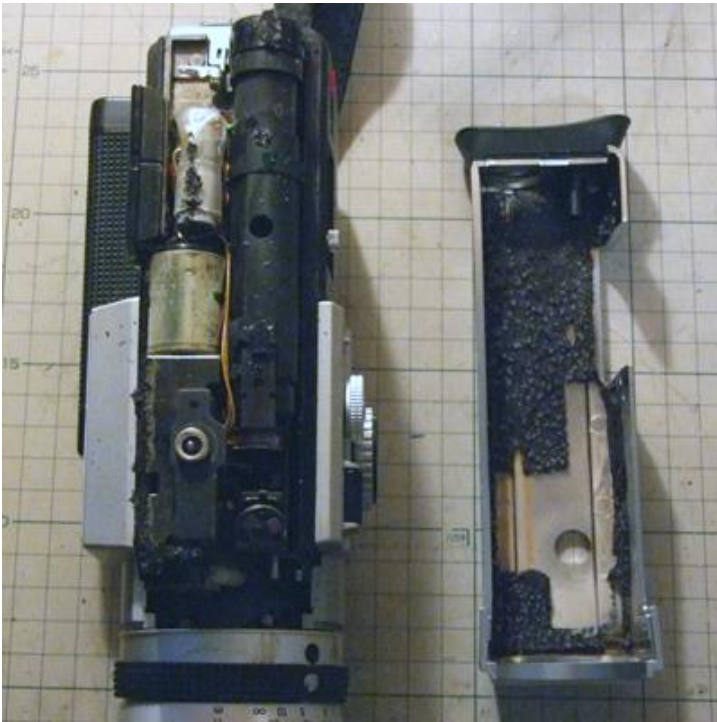
Shape might be slightly different depending on the time that has been made. If the zoom ring is not moved, a top cover might not be able to be removed. It might be not so. The zoom lever is first turned and it removes when moving it. It is removed because there are two screws when rubber is moved. And, the zoom ring is moved to previous.



When the eyepiece is turned, the screw is seen here. The eyepiece comes off when the screw is removed. Whether may I remove or not? However, because the eyepiece is cleaned, it has been removed.

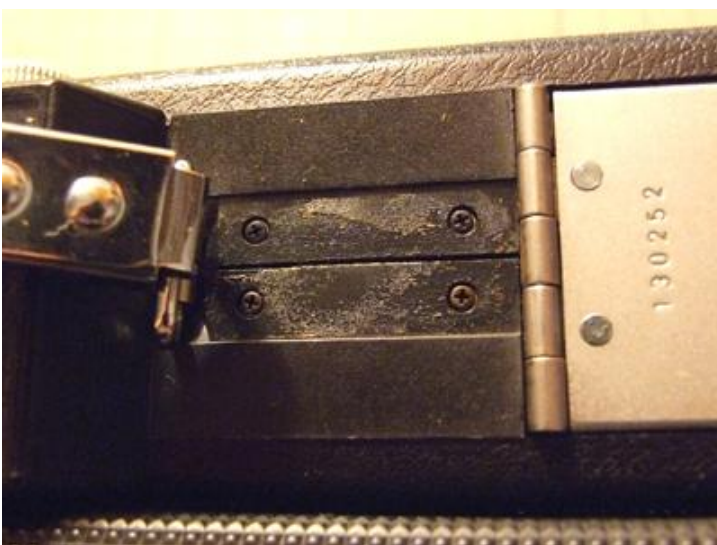
There is a small washer in the screw of the body cover.

The top cover has been removed. The malt sponge is terrible. This needs to be completely reupholstered.



To remove the side cover, remove the bottom screw.

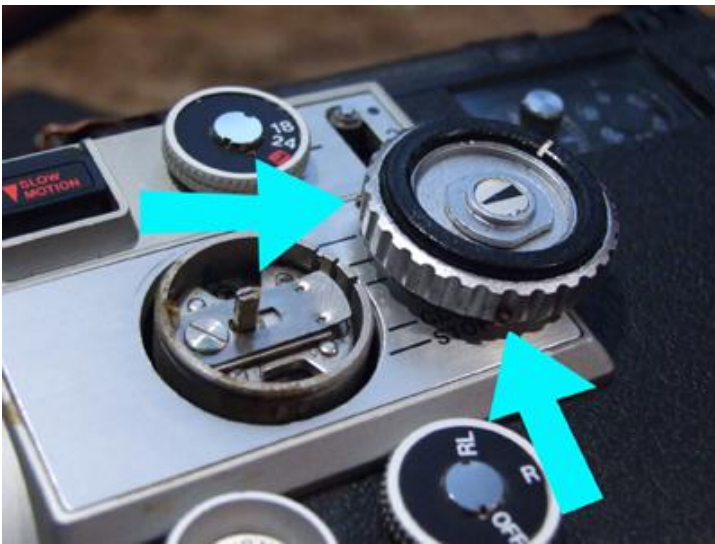
When you remove the two front screws, the cover of the shutter lever comes off. Then, it is removed because there is a screw also under the lens.



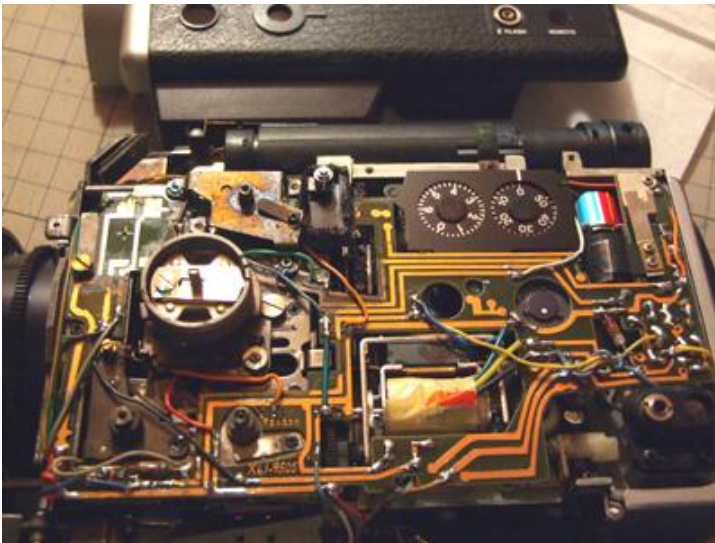
The screws are here .

The dial of the shutter angle can be removed only by loosening two screws on side .





It opened. An old camera is a solid making

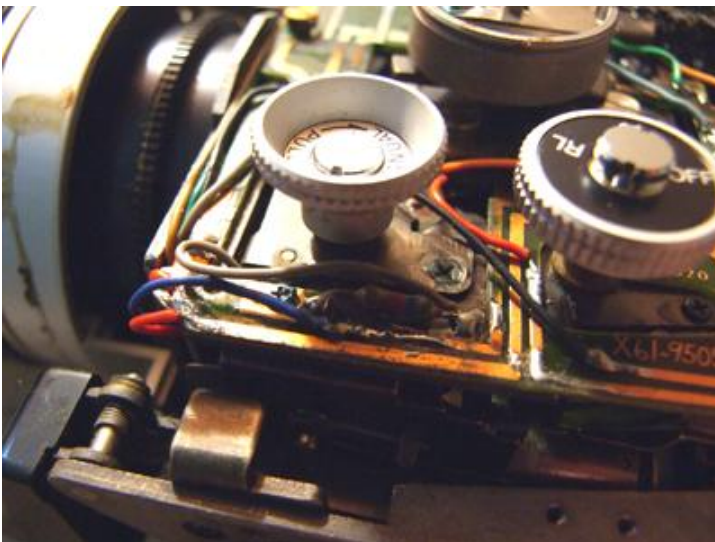


I tried moving it, but the symptoms did not change. What I found out was that if I pulled it tightly, I could move the aperture manually. Looking through the gap, it seemed like the dial was slipping when in manual mode.

Well, how it accessed there worried for a while.

The manual iris was Ok when making efforts and pulling it. The dial seems to slip when seeing from the space.

Well, how it accessed there worried for a while.

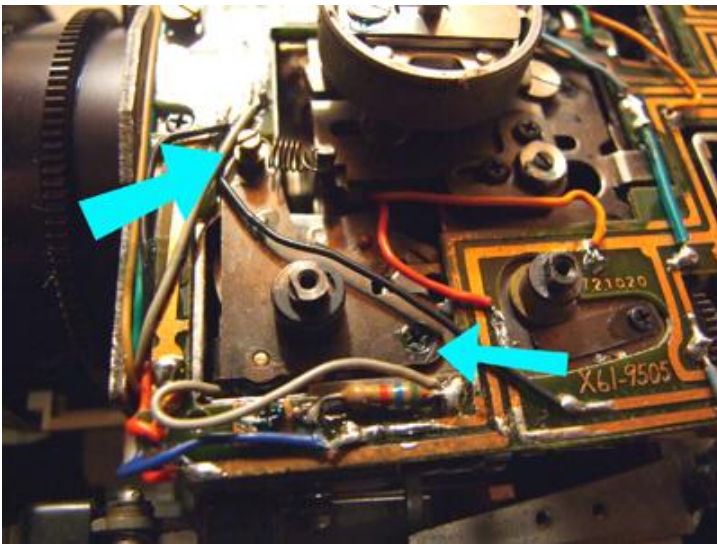


I thought I might have to remove the solder, but I managed to do it just by removing the screw in the photo. The upper one has a spring attached to it, so be careful not to let it fly away. Solder

was not removed.

The screw in the photo was removed.

It is attention for the spring so as not to fly.



It lifts quietly. I will remember structuring. Because the length of the wire is short, it is not possible to lift so much. Two screws that stop the point of contact are removed. It is necessary to note it very much so as not to drop the screw



I was able to remove it safely. The rubber had deteriorated and was sticky.

It was possible to remove safely. There is melting rubber.

A simple drawing shows this.

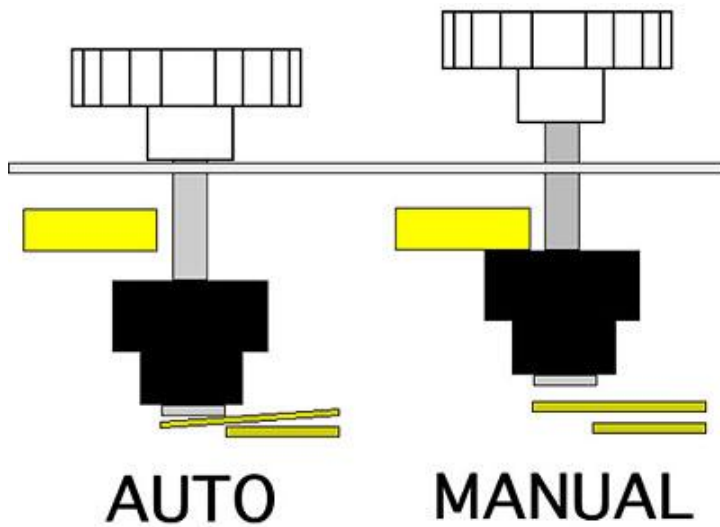
The black part is rubber, and the yellow part is metal. The metal part has a jagged edge.

This friction is what moves it when in manual mode. It's actually a little more complicated, and it's linked to the mechanism that moves the aperture and the needle in the viewfinder. There's a spring there. The rubber had deteriorated and slipped, and it was losing to the force of the spring. I could barely move it by pulling it tightly.

If it deteriorates further, I think it probably won't move at all.

It is easy figure.





The black is rubber, and yellow is a metal. There is a ditch on a metallic side.

The manual iris is moved by rubbing rubber and the metal.

The thing is complex a little more. There is a mechanism that moves the needle in the iris and the viewfinder. There is a spring there. Because rubber had melted, it was defeated at the power of the spring.

I think that it becomes impossible to move at all when deteriorated more.



It's sticky.

When rubber deteriorates, it either hardens or melts, but I really hate the melted part... It's the worst because it's hard to get off if it gets on your hands. Many

CHINON cameras have rubber like this. I

think Canon cameras often have hardened rubber.

It is a sticky paste.

Rubber melts or becomes hard. Melting is truly unpleasant. It is not possible to take it easily when touching. It is a nightmare.

Rubber of CHINON often melts.

Canon thinks that it had often stiffened.



Beautifully cleans it. I think about parts of taking the place



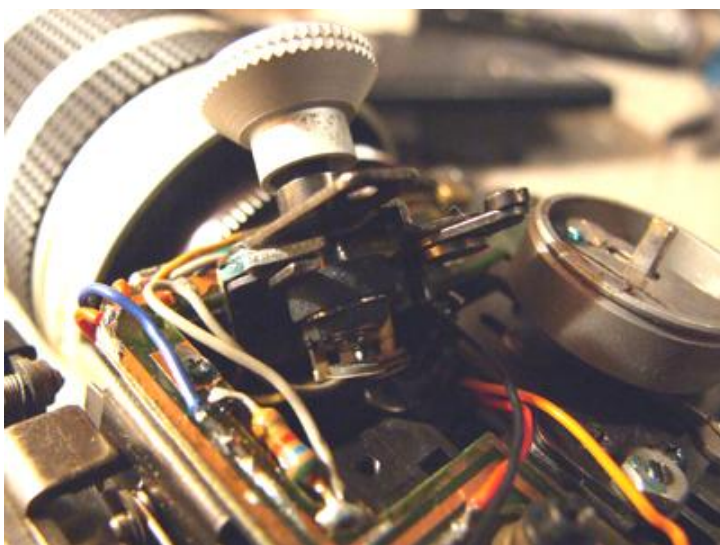
I made parts that look like that. It's rubber after all.

It will probably deteriorate again in the future, but that's a long way off.

If it's too loose, it might slip again, so I made it a little tighter. It



seems to move and to be good.



Reassemble. It is assembly . Because it is a nightmare when the screw is dropped, it is careful



Finished! Perfect!

All of my 814Es are fine, but they will probably end up like this. It's fine for auto use, though.

Well, the deterioration of the rubber is inevitable.

Completion!

All 814E might become it so. Though the auto iris is safe.

As for deterioration in rubber, it is destined not to be avoided.